# Anti-Steroid sulfatase Antibody [PSH05-74]

# HA722441

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| **Product Type:** | Recombinant Rabbit monoclonal IgG, primary antibodies |
| **Species reactivity:** | Human |
| **Applications:** | WB, IHC-P |
| **Molecular Wt:** | Predicted band size: 65 kDa |
| **Clone number:** | PSH05-74 |

**Description:** Catalyzes the conversion of sulfated steroid precursors, such as dehydroepiandrosterone sulfate (DHEA-S) and estrone sulfate to the free steroid. Defects in STS are the cause of ichthyosis X-linked (IXL) [MIM:308100]. Ichthyosis X-linked is a keratinization disorder manifesting with mild erythroderma and generalized exfoliation of the skin within a few weeks after birth. Affected boys later develop large, polygonal, dark brown scales, especially on the neck, extremities, trunk, and buttocks.

**Immunogen:** Recombinant protein within Human Steroid sulfatase aa 22-184 and aa 235-583.

**Positive control:** Jurkat cell lysate HepG2 cell lysate, MCF7 cell lysate, Huh7 cell lysate, T-47D cell lysate, human placenta tissue.

**Subcellular location:** Cytoplasmic vesicle. Endoplasmic reticulum.

**Database links:** SwissProt: P08842 Human

**Recommended Dilutions:**

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| **WB** | 1:2,000 |
| **IHC-P** | 1:3,000 |

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

**Purity:** Protein A affinity purified.

## Images

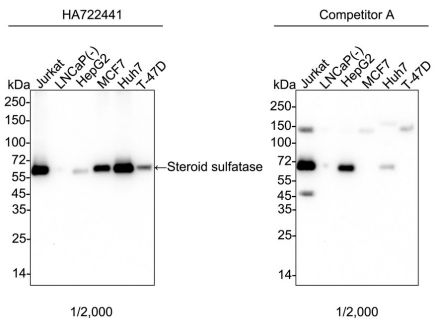


**Fig1:** Western blot analysis of Steroid sulfatase on different lysates with Rabbit anti-Steroid sulfatase antibody (HA722441) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution.

Lane 1: Jurkat cell lysate
Lane 2: LNCaP cell lysate (negative)
Lane 3: HepG2 cell lysate
Lane 4: MCF7 cell lysate
Lane 5: Huh7 cell lysate
Lane 6: T-47D cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 65 kDa
Observed band size: 65 kDa

Exposure time: 59 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722441) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution were used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

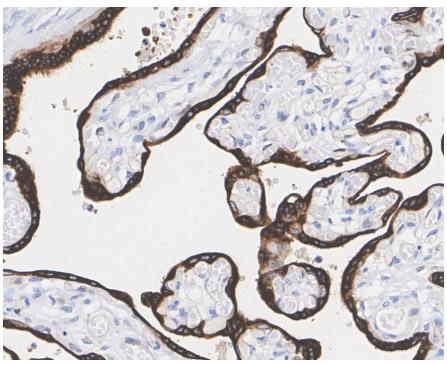

**Fig2:** Immunohistochemical analysis of paraffin-embedded human placenta tissue with Rabbit anti-Steroid sulfatase antibody (HA722441) at 1/3,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with dd$H_2O$ and PBS, and then probed with the primary antibody (HA722441) at 1/3,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

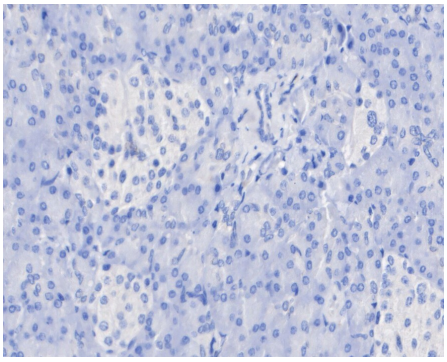

**Fig3:** Immunohistochemical analysis of paraffin-embedded human pancreas tissue (negative) with Rabbit anti-Steroid sulfatase antibody (HA722441) at 1/3,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with dd$H_2O$ and PBS, and then probed with the primary antibody (HA722441) at 1/3,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Background References

1. Oyama N., Satoh M., Iwatsuki K., Kaneko F. Novel point mutations in the steroid sulfatase gene in patients with X-linked ichthyosis: transfection analysis using the mutated genes. J. Invest. Dermatol. 114:1195-1199 (2000)
2. Matsumoto J., Ariyoshi N., Ishii I., Kitada M. Functional characterization of seven single-nucleotide polymorphisms of the steroid sulfatase gene found in a Japanese population. J. Hum. Genet. 58:267-272 (2013)